

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P61327W000	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/004707	International filing date (day/month/year) 08/11/2004	(Earliest) Priority Date (day/month/year) 07/11/2003
Applicant SOLEXA LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The International search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/004707

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07H21/00 C1201/68 C12N15/11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07H C12Q C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
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EPO-Internal, WPI Data, EMBASE, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/08183 A1 (LANE, MICHAEL, J; BENIGHT, ALBERT, S; FALDASZ, BRIAN, D) 6 March 1997 (1997-03-06) cited in the application page 9 - page 10 -----	1,2
X	ZHAO XIAODONG ET AL: "Immobilization of oligodeoxyribonucleotides with multiple anchors to microchips" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 29, no. 4, 15 February 2001 (2001-02-15), pages 955-959, XP002175040 ISSN: 0305-1048 page 957 - page 958; figure 1 -----	1-10,15, 18-20, 23-34, 37-39
Y	----- -/-	3-7,9,10

<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.
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<input checked="" type="checkbox"/> Patent family members are listed in annex.
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* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
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1 February 2005	28/02/2005
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl Fax (+31-70) 340-3016

Authorized officer

Gruber, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 174 879 A1 (INSTITUT PASTEUR; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE ; CENTR) 19 March 1986 (1986-03-19)	1,2,8, 11-13, 15-20, 23-31, 33-40
Y	page 4 - page 17	3-7,9, 10,14
X	US 2003/022207 A1 (BALASUBRAMANIAN SHANKAR ET AL) 30 January 2003 (2003-01-30) page 5, paragraph 53	21,22
Y	WO 01/92284 A1 (AMERSHAM PHARMACIA BIOTECH UK LIMITED; ODEDRA, RAJ; SIMMONDS, ADRIAN;) 6 December 2001 (2001-12-06) page 12, line 23 - line 25; claim 12	14
A	US 4 659 774 A (WEBB ET AL) 21 April 1987 (1987-04-21) the whole document	1-40
A	WO 02/061126 A2 (SOLEXA LTD; BARNES, COLIN; BALASUBRAMANIAN, SHANKAR; KLENERMAN, DAVID;) 8 August 2002 (2002-08-08) page 6, line 22 - line 24; example 1	1-40
A	WO 01/16152 A2 (AMERSHAM PHARMACIA BIOTECH, INC) 8 March 2001 (2001-03-08) the whole document	1-40
A	FANG X ET AL: "Designing a novel molecular beacon for surface-immobilized DNA hybridization studies" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 31 MAR 1999 UNITED STATES, vol. 121, no. 12, 31 March 1999 (1999-03-31), pages 2921-2922, XP002315845 ISSN: 0002-7863 the whole document	1-40
A	BROUDE N E: "Stem-loop oligonucleotides: a robust tool for molecular biology and biotechnology" TRENDS IN BIOTECHNOLOGY, ELSEVIER PUBLICATIONS, CAMBRIDGE, GB, vol. 20, no. 6, 1 June 2002 (2002-06-01), pages 249-256, XP004352763 ISSN: 0167-7799 the whole document	1-40
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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	PIRRUNG M C ET AL: "Novel reagents and procedures for immobilization of DNA on glass microchips for primer extension" LANGMUIR, ACS, WASHINGTON, DC, US, vol. 16, 2000, pages 2185-2191, XP002158761 ISSN: 0743-7463 the whole document -----	1-40
A	RICCELLI P V ET AL: "Hybridization of single-stranded DNA targets to immobilized complementary DNA probes: comparison of hairpin versus linear capture probes" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 29, no. 4, 15 February 2001 (2001-02-15), pages 996-1004, XP002282478 ISSN: 0305-1048 the whole document -----	1-40

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004707

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